Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of	)	
	)	
Advanced Television Systems	)	MB Docket No. 87-268
and Their Impact upon the	)	
Existing Television Broadcast	)	
Service	)	
	)	

COMMENTS OF THE UNIVERSITY OF NORTH CAROLINA

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January 25, 2007

The University of North Carolina ("UNC-TV"), through its undersigned attorneys, files the following comments in response to the *Seventh Further Notice of Proposed Rule Making*, FCC 06-150 (Rel. Oct. 20, 2006) ("*Seventh Further Notice*").

WUND-DT, Edenton, North Carolina (Facility ID No. 69292)

A. Community of License Error

UNC-TV submits the instant comments to clarify certain data included in Appendix B to the *Seventh Further Notice* for its station WUND-DT, Edenton, North Carolina (Facility ID No. 69292). In Appendix B, WUND-DT's facility is incorrectly listed with a community of license of Columbia, North Carolina. WUND-DT's community of license is Edenton, North Carolina.[1] The proposed Post-Transition Table of DTV Allotments in revised Rule Section 73.622 listed in Appendix A to the *Seventh Further Notice* lists the correct community of license of Edenton, North Carolina for WUND-DT, and UNC-TV respectfully requests that the data in Appendix B be corrected to reflect the correct community of license.

B. Request to Change Certified Facility for WUND-DT

UNC-TV also submits the instant comments to propose a change to WUND-DT's certified facility. In the WUND-DT Form 381 filing, UNC-TV certified to a replication facility. *See* File No. BCERET 20041105AEZ. UNC-TV seeks to change its certification to its maximized facility, consistent with its licensed parameters in File No. BLEDT-20051011AGU, with one exception discussed in the margin.[2]

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[1] *See* File No. BLEDT-20051011AGU; *In the Matter of Amendment of Section 73.606(b), Table of Allotments, Television Broadcast Stations; and Amendment of Section 73.622(b) Table of Allotments, Digital Television Broadcast Stations (Columbia and Edenton, North Carolina)*, Report and Order, 20 FCC Rcd 12457 (2005).

[2] UNC-TV has discovered an error in the licensed parameters for WUND-DT. Specifically, WUND-DT's current license (File No. BLEDT-20051011AGU) specifies the height of radiation center above mean sea level as 980 meters. In fact, the license should specify the height of radiation center AMSL as 491 meters, consistent with the former license of WUND-DT (File No. BLEDT-

(continued . . .)

The *Seventh Further Notice* contemplates that stations may request a change to their Form 381 certification where (1) a licensee can demonstrate that the area served by its authorized or constructed facilities extends beyond the area to which it certified, and (2) a licensee can demonstrate that the proposed certified facilities would not result in interference in excess of 0.1 percent to any licensee's existing tentative channel designation. *See Seventh Further Notice*, ¶¶ 28-29. As demonstrated in the engineering statement prepared by Louis R. du Treil, Jr., P.E., attached as Exhibit 1, WUNDDT's proposed certified facility, which is the maximized facility authorized by BLEDT-20051011AGU, meets both requirements. Accordingly, UNC-TV respectfully requests that the WUND-DT certified facility and corresponding Appendix B data be changed to reflect the parameters approved and constructed pursuant to BLEDT-20051011AGU, including 543 kW ERP and 489 meters HAAT.

20011116ABT). The erroneous height appears to be the result of an erroneous entry in Item 5 of the Tech Box in Form 340 filed to effectuate the change in WUND-DT's community of license (File No. BPEDT-20050907ABQ). Instead of entering 2 meters in response to Item 5, a value of 491 meters was entered. That this entry was merely a clerical error is apparent from the Antenna Structure Registration, which was listed in Item 4 of the Tech Box and which correctly specifies 2 meters as the site elevation above sea level. On January 12, 2007, UNC-TV filed an application to resolve this issue (File No. BPEDT-20070112AHT).

Respectfully submitted,

THE UNIVERSITY OF NORTH CAROLINA

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January 25, 2007

Exhibit 1

(WUND-DT Engineering Statement)

TECHNICAL EXHIBIT
IN SUPPORT OF COMMENTS OF THE
UNIVERSITY OF NORTH CAROLINA
MB DOCKET NO. 87-268
WUND-TV/DT
EDENTON, NORTH CAROLINA

This Technical Exhibit was prepared on behalf of the University of North Carolina, licensee of WUND-TV/DT, Edenton, North Carolina,* in support of Comments in the Seventh Further Notice of Proposed Rule Making in MB Docket No. 87-268. This exhibit supports the modification of the certification for WUND-DT (Channel 20). It is demonstrated herein that WUND-DT's certification facility can be modified to reflect its licensed and operating digital facility.†

WUND-DT holds a license for operation on Channel 20 with a non-directional effective radiated power (ERP) of 543 kW with an antenna height above average terrain (HAAT) of 489 m.‡ The WUND-DT certified facility specifies operation on Channel 20 with a maximum ERP of 1000 kW with an antenna HAAT of 302 m (303 m AMSL).§ The geographic coordinates for the WUND-DT certified and licensed facilities are nearly identical with a difference in site locations of less than 0.18 km.**

An engineering analysis was conducted to determine the predicted interference to all other licensee's potentially affected tentative channel designations (TCD's). The analysis calculated net new predicted interference according to the

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* The WUND-DT city of license was formerly Columbia, North Carolina. The FCC proposed DTV Table of Allotments should be corrected to reflect the new city of license for WUND-DT of Edenton, North Carolina.

† See FCC File No. BLEDT-20051011AGU.

‡ The radiation center above mean sea level (RCAMSL) listed in the FCC CDBS database is incorrect. The correct RCAMSL is 491 m. The University of North Carolina is in the process of modifying the WUND-DT license to correctly reflect the RCAMSL figure. The antenna HAAT figure of 489 m is correct as indicated in the FCC CDBS database.

§ The WUND-DT certified facility directional antenna pattern is essentially non-directional.

** The geographic coordinates of the WUND-DT certified facility are 35-53-59 N.L. / 76-20-52 W.L. The geographic coordinates of the WUND-DT licensed facility are 35-54-00 N.L. / 76-20-45 W.L.

procedures outlined by the FCC in the *Second DTV Periodic Report and Order*[††] and related Public Notices. The analysis results are summarized as follows:

Analysis of Channel 20, WUND-DT, Edenton, NC (543 kW-DA, 491 m AMSL)

Tentative Channel 19 WUNM-DT, Jacksonville, NC
Proposal causes no interference.

Tentative Channel 20 WJPR-DT, Lynchburg, VA
Proposal causes interference of less than 0.15%.

Based on the foregoing, it is concluded that the proposed new certified facility for WUND-DT as described above would comply with the FCC 0.1% interference requirement. Pursuant to the FCC procedure, this includes the rounding factor, which allows for interference below 0.15% to be deemed compliant with the 0.1% criteria.

There is no additional interference that would be received by the WUND-DT proposed certified facility. However, to the extent that additional interference would be caused to the WUND-DT proposed new certified facility by other licensee's TCD's as a result of this change, this is hereby accepted.

There are no service area losses for the WUND-DT proposed certified facility relative to the WUND-DT present TCD noise-limited service area. The service baseline population for the WUND-DT proposed new certified facility is calculated to be 1,360,000 (39,125 sq. km) according to the FCC procedure. The service baseline

[††] *Second Periodic Review of the Commission's Rules and Policies Affecting the Conversion to Digital Television*, MB Docket No. 03-15, Report and Order, 19 FCC Rcd 18279, 18281 (2004).

population for the present WUND-DT 1000-kW TCD is 661,000 (31,709 sq. km). Thus, grant of this proposal would allow for an increase in WUND-DT baseline service population of 699,000 (7,416 sq. km) after the digital transition.

Based on the forgoing, the proposed FCC DTV Table of Allotments should be amended to reflect the following facilities consistent with the WUND-DT licensed and operating facility on Channel 20:

Facility ID	State	City	NTSC	DTV					
			Channel	Channel	ERP (kW)	HAAT (m)	Antenna ID	Latitude DDMMSS	Longitude DDDMMSS
69292	NC	**Edenton**	2	20	**543**	**489**	**70532**	**355400**	**762045**

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